

Title (en)
TURBOMACHINE WITH RING ROOM EXTENSION AND BLADE

Title (de)
STRÖMUNGSMASCHINE MIT RINGRAUMERWEITERUNG UND SCHAUFEL

Title (fr)
TURBOMACHINE À ÉLARGISSEMENT D'ESPACE ANNULAIRE ET AUBE

Publication
EP 3043022 B1 20231018 (DE)

Application
EP 15196895 A 20151127

Priority
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Abstract (en)
[origin: US2016168998A1] Disclosed is a turbomachine including a stator, a rotor rotatable about an axis of rotation, and an annulus for carrying a core flow, the annulus having a side wall on the stator and a side wall on the rotor, at least one airfoil array having a plurality of airfoils being disposed in the annulus. In a departure from an ideal aerodynamic annulus contour, a radial annulus enlargement begins upstream of the airfoils and extends downstream up to an aft portion of the airfoil array that follows the ideal aerodynamic annulus contour. Also disclosed is an airfoil for such a turbomachine.

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